

Abstract

Composite material comprising core/shell particles

5 The invention relates to composite materials having an optical effect,
comprising at least one moulding which essentially consists of core/shell
particles whose shell forms a matrix and whose core is essentially solid and
has an essentially monodisperse size distribution, where a difference exists
10 between the refractive indices of the core material and of the shell material,
and at least one further material which determines the mechanical
properties of the composite, and to a process for the production of the
composite materials. The materials according to the invention exhibit a
viewing angle-dependent colour effect with freely adjustable mechanical
15 properties.